

CLAIMS

1. A fiber processing agent used for processing a surface of a fiber, comprising:
a soluble eggshell membrane; and a reactive organic compound having a reactive group.
- 5 2. The fiber processing agent according to claim 1,
wherein the reactive organic compound contains one or more of (component 1) a hydrophilic compound having a polymerizable vinyl group in the molecule, (component 2) a monomer containing any of a hydroxyl group, a carboxylic group, an amino group, a sulfonic group, and a phosphate group, (component 3) a hydrophilic compound having an epoxy group, and (component 4) a compound having an aziridine group.
- 10 3. The fiber processing agent according to claim 1 or claim 2,
wherein a content of the soluble eggshell membrane relative to the total weight of the fiber processing agent is in the range from 0.1 to 10% by weight; and
15 a content of the reactive organic compound is in the range from 1 to 20% by weight.
4. A fiber processed with the fiber processing agent according to any of claims 1 to 3.
5. A fiber processing agent used for processing a surface of a fiber comprising:
20 a soluble eggshell membrane; and an organic compound having adhesiveness.
6. The fiber processing agent according to claim 5,
wherein the organic compound having adhesiveness is a reactive organic compound having a reactive group.
7. A fiber processing agent according to claim 6,
25 wherein the reactive organic component contains at least one of (component 1) a hydrophilic compound having a polymerizable vinyl group in the molecule, (component 2) a monomer containing any of a hydroxyl group, a carboxylic group, an amino group, a sulfonic group, and a phosphate group, (component 3) a hydrophilic compound having an epoxy group, (component 4) a compound having an aziridine group, and (component 5) a

compound containing an isocyanate group or a precursor thereof.

8. The fiber processing agent according to claim 5,

wherein the organic compound having adhesiveness is a lipophilic compound such as wax and silicone and/or high molecular compound containing a group such as ether, acryl, urethane, amide, and ester.

9. A fiber processed with the fiber processing agent according to any of claims 5 to

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